

**SAMSUNG**

**INSTALLATION MANUAL  
MANUAL DE INSTALACIÓN  
MANUEL D'INSTALLATION  
MANUALE D'INSTALLAZIONE  
MANUAL DE INSTALAÇÃO  
INSTALLATIONS-HANDBUCH  
ΕΓΧΕΙΡΙΔΙΟ ΕΓΚΑΤΑΣΤΑΣΗΣ  
ИНСТРУКЦИЯ ПО УСТАНОВКЕ  
DH052EAM  
DH070EAM**

ENGLISH

ESPAÑOL

FRANÇAIS

ITALIANO

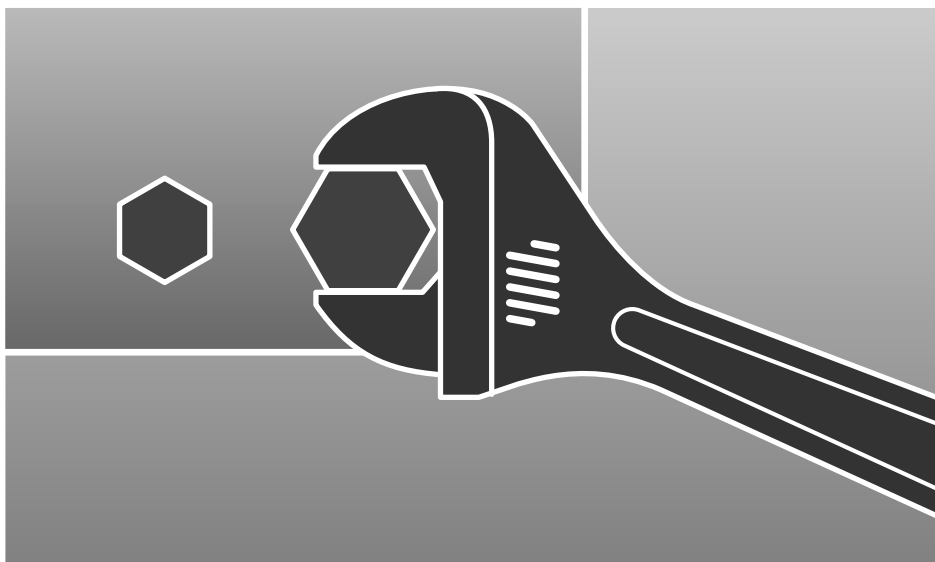
PORTUGUÊS

DEUTSCH

ΕΛΛΗΝΙΚΑ

RUSSIAN

**Duct-type Air Conditioner (Cool and Heat)**  
**Aire acondicionador Tipo Canal (Refrigeración y Calefacción)**  
**Climatiseur de type Conduit (Refroidissement et Chauffage)**  
**Condizionatore d'aria Tipo Conduttura (Raffreddamento e Riscaldamento)**  
**Ar Condicionado Tipo Conduto (Refrigeração e Aquecimento)**  
**Ventiltype Klimaanlage (Kühlen und Wärmen)**  
**Κλιματιστικό Τύπου Αεραγωγού (Ψύξης και Θέρμανσης)**  
**Воздушный Кондиционер Трубного Типа (Охлаждение и Обогрев)**

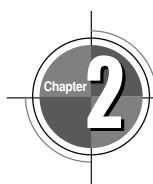


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## Preparation for installation

*When deciding on the location of the air conditioner with the owner, the following restrictions must be taken into account.*

### General




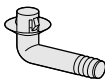

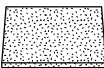
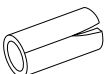





**Do NOT install the air conditioner in a location where it will come into contact with the following elements:**

- ◆ Combustible gases
- ◆ Saline air
- ◆ Machine oil
- ◆ Sulphide gas
- ◆ Special environmental conditions

If you must install the unit in such conditions, first consult your dealer.

### Accessories

- ◆ The following accessories are supplied with the indoor unit.  
The type and quantity may differ depending on the specifications.

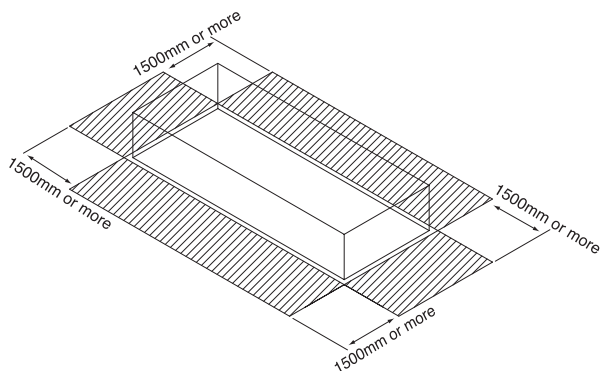
Owner's Instructions 	Installation Manual 	Pattern Sheet 	Drain Plug 
Insulation Drain 	Insulation Cover Pipe 	Insulation pipe 	Insulation Drain Pipe 
Nut 	Rubber 	Cable-Tie 	Drain socket 

## Deciding on where to install the indoor unit

### Indoor Unit

- ◆ There must be no obstacles near the air inlet and outlet.
- ◆ Install the indoor unit on a ceiling that can support its weight.
- ◆ Maintain sufficient clearance around the indoor unit.
- ◆ Make sure that the water dripping from the drain hose runs away correctly and safely.
- ◆ The indoor unit must be installed in this way, that they are out of public access. (Not touchable by the users)
- ◆ After connecting a chamber, insulate the connection part between the indoor unit and the chamber with t10 or thicker insulation. Otherwise, there can be air leak or dew from the connection part.

### Space Requirements for Indoor Unit

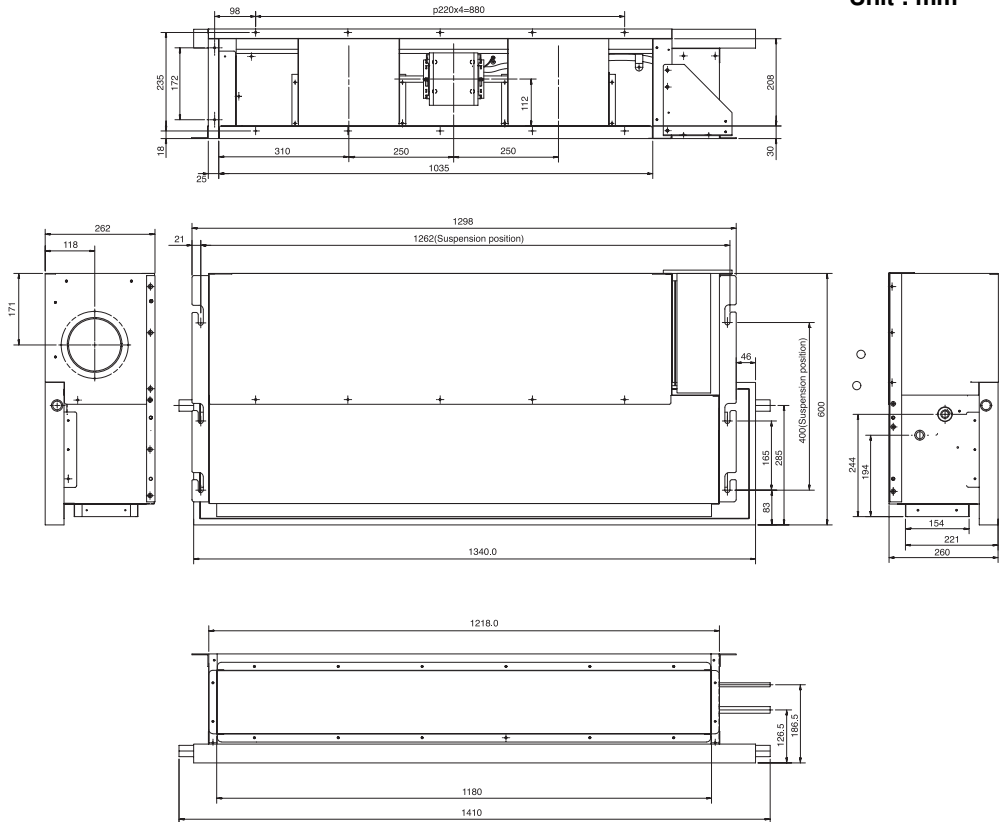


You must have 5mm or more space between the ceiling and the bottom of indoor unit. Otherwise, the noise from the vibration of indoor unit may bother the user.

## Deciding on where to install the indoor unit (Cont.)

### Drawing of the indoor unit

Unit : mm



No.	Name	Remark
1	Liquid pipe connection	ø6.35
2	Gas pipe connection	ø12.70(DH052EAM) ø15.88(DH070EAM)

# Indoor unit installation

It is recommended to install the refnet joint before installing the indoor unit.

- 1 Carefully remove the indoor unit from the packing case and pull out the shipping block on the motor of the unit.
- 2 Place the pattern sheet on the ceiling at the spot where you want to install the indoor unit.

**Note** ◆ Since the diagram is made of paper, it may shrink or stretch slightly due to temperature or humidity. For this reason, before drilling the holes maintain the correct dimensions between the markings; refer to page 6.

- 3 Insert bolt anchors. Use existing ceiling supports or construct a suitable support as shown in figure.

- 4 Install the suspension bolts depending on the ceiling type.

**IMPORTANT** ◆ Ensure that the ceiling is strong enough to support the weight of the indoor unit.  
Before hanging the unit, test the strength of each attached suspension bolt.  
◆ If the length of suspension bolt is more than 1.5m, it is required to prevent vibration.

- 5 Screw eight nuts to the suspension bolts making space for hanging the indoor unit.

**IMPORTANT** You must install the suspension bolts more than four when installing the indoor unit.

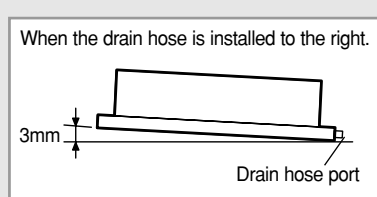
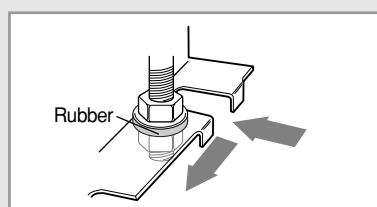
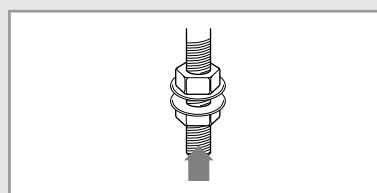
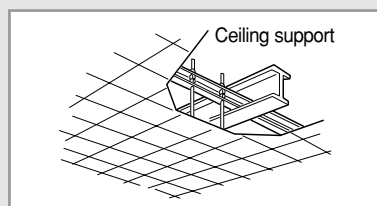
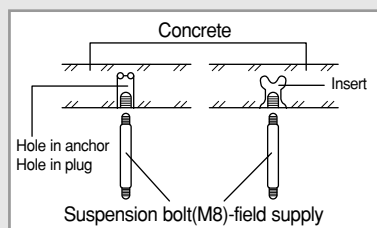
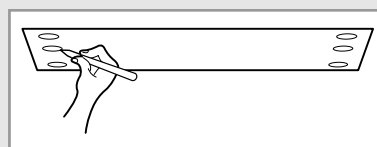
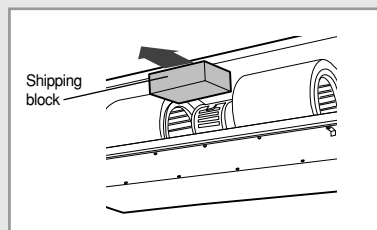
- 6 Hang the indoor unit to the suspension bolts between two nuts.

**Note** ◆ Piping must be laid and connected inside the ceiling when suspending the unit. If the ceiling is already constructed, lay the piping into position for connection to the unit before placing the unit inside the ceiling.

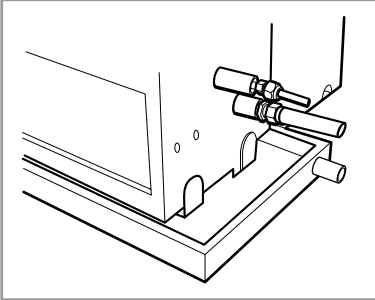
- 7 Screw the nuts to suspend the unit.

- 8 Adjust level of the unit by using measurement plate for all 4 sides.

**Note** ◆ For proper drainage of condensate, give a 3mm slant to the left or right side of the unit which will be connected with the drain hose, as shown in the figure. Make a tilt when you wish to install the drain pump, too.



## Purging the unit



***On delivery, the indoor unit is loaded with refrigerant gas. All this gas must therefore be purged before connecting the assembly piping. To purge the inert gas, proceed as follows.***

---

Unscrew the pinch pipe at the end of each refrigerant pipe.

Result: All inert gas escapes from the indoor unit.

**Note** ♦ To prevent dirt or foreign objects from getting into the pipes during installation, do NOT remove the pinch pipe completely until you are ready to connect the piping.

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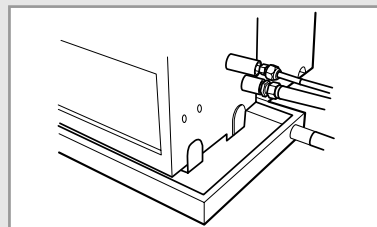
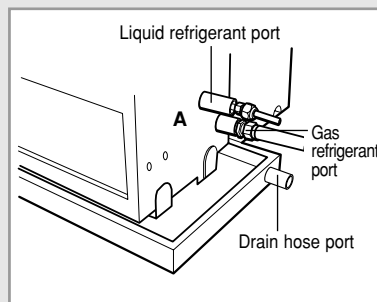
# Connecting the refrigerant pipe

**There are two refrigerant pipes of differing diameters:**

- ◆ A smaller one for the liquid refrigerant
- ◆ A larger one for the gas refrigerant
- ◆ The inside of copper tube must be clean & has no dust.

**The connection procedure for the refrigerant pipes varies according to the exit position of the pipes from the indoor unit, as seen when facing the indoor in the "A" side.**

- ◆ Liquid refrigerant port
- ◆ Gas refrigerant port
- ◆ Drain hose port



- 1 Remove the pinch pipe on the pipes and connect the assembly pipes to each pipe, tightening the nuts, first manually and then with a wrench, a spanner applying the following torque.

Outer Diameter	Torque (kgf·cm)
6.35 mm (1/4")	144~176
9.52 mm (3/8")	333~407
12.70 mm (1/2")	504~616
15.88 mm (5/8")	630~770
19.05 mm (3/4")	990~1210
22.23 mm (7/8")	990~1210

**Note** ◆ If the pipes must be shortened refer to page 10.

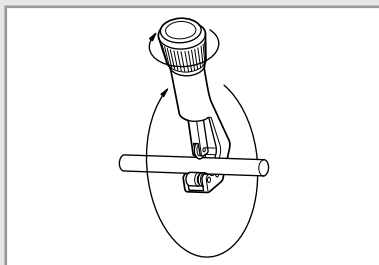
- 2 Must use insulator which is thick enough to cover the refrigerant tube to protect the condensate water on the outside of pipe falling onto the floor and the efficiency of the unit will be better.

- 3 Cut off any excess foam insulation.

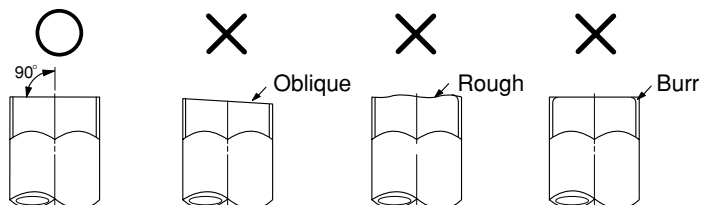
- 4 Be sure that there must be no crack or wave on the bended area.

- 5 It would be necessary to double the insulation thickness(10mm or more) to prevent condensation even on the insulator when if the installed area is warm and humid.

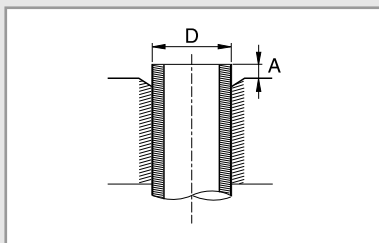
## Cutting/Flaring the pipes



- 1 Make sure that you have the required tools available (pipe cutter, reamer, flaring tool and pipe holder).
- 2 If you wish to shorten the pipes, cut it with a pipe cutter, taking care to ensure that the cut edge remains at a 90° angle with the side of the pipe. Refer to the illustrations below for examples of edges cut correctly and incorrectly.



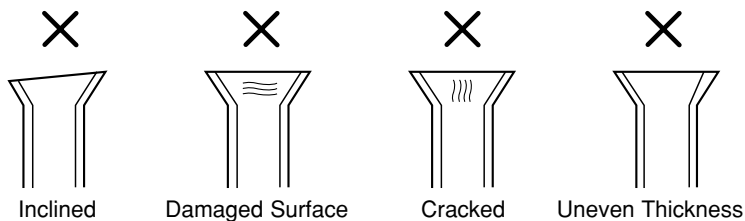
- 3 To prevent any gas from leaking out, remove all burrs at the cut edge of the pipe, using a reamer.



- 4 Slide a flare nut on to the pipe and modify the flare.

Outer Diameter (D)	Depth (A)
6.35 mm (1/4")	1.3mm
9.52 mm (3/8")	1.8mm
12.70 mm (1/2")	2.0mm
15.88 mm (5/8")	2.2mm
19.05 mm (3/4")	2.2mm
22.23 mm (7/8")	2.2mm

- 5 Check that the flaring is correct, referring to the illustrations below for examples of incorrect flaring.



- 6 Align the pipes and tighten the flare nuts first manually and then with a wrench, applying the following torque.

Outer Diameter	Torque (kgf-cm)
6.35 mm (1/4")	144~176
9.52 mm (3/8")	333~407
12.70 mm (1/2")	504~616
15.88 mm (5/8")	630~770
19.05 mm (3/4")	990~1210
22.23 mm (7/8")	990~1210

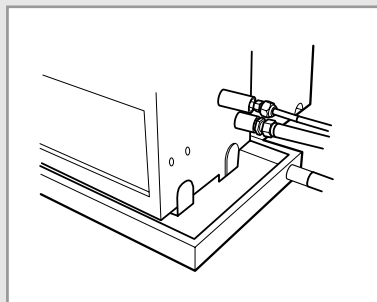
### CAUTION

- ◆ In case of welding the pipe, you must weld with nitrogen gas blowing.

# Performing leak test & insulation

## Leak Test

To check for gas leaks on the indoor unit, check the connection part of each refrigerant pipe by using a leak detector.

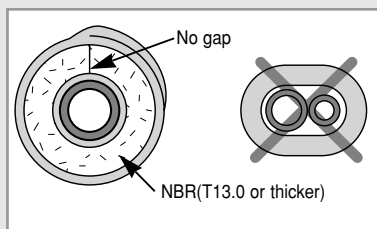


## Insulation

*Once you have checked that there are no leaks in the system, you can insulate the piping and hose.*

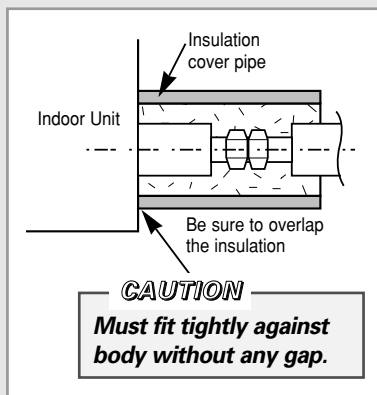
- 1 To avoid condensation problems, place **T13.0 or thicker Acrylonitrile Butadien Rubber** separately around each refrigerant pipe.

**Note** ♦ Always make the seam of pipes face upwards.



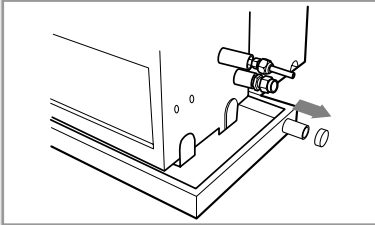
- 2 Wind insulating tape around the pipes.

- 3 Finish wrapping insulating tape around the rest of the pipes leading to the outdoor unit.

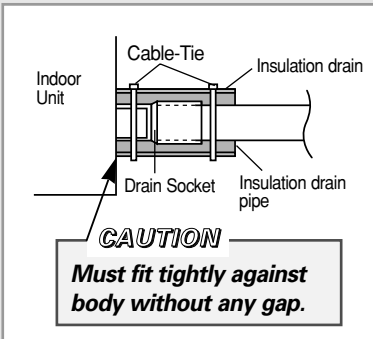


## Drain hose installation

**Care must be taken when installing the drain hose for the indoor unit to ensure that any condensate water is correctly drained outside. The drain hose can be installed to the right or left side of the base pan.**



- 1 Remove the rubber cap located on the side of the base pan depending on the situation.



- 2 Install the drain hose so that its length can be as short as possible. Internal diameter of the drain hose should be the same or slightly bigger than the external diameter of the drain port.

**Note**

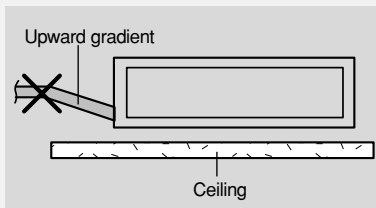
- ◆ Give a 3mm slant to the drain hose for proper drainage of condensate.
- ◆ Secure the drain hose with the cable-tie not to be separated from the unit.

- 3 Wrap the drain hose with the insulation drain pipe, the insulation A as shown in figure and secure them. And wrap the other drain tube outlet with the insulation B provided.

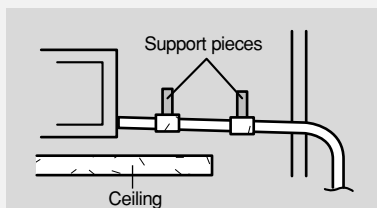
### CAUTION

#### When not installing the drain pump

Do not give the hose and upward gradient after the connection port. This will cause water to flow backwards when the unit is stopped, resulting in water leaks.

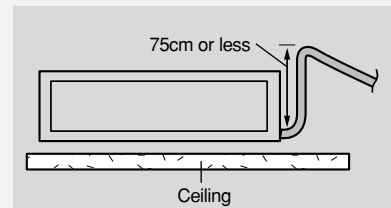


Do not apply force to the piping on the unit side when connecting the drain hose. The hose should not be allowed to hang loose from its connection to the unit. Fasten the hose to a wall, frame or other support as close to the unit as possible.



#### When installing the drain pump

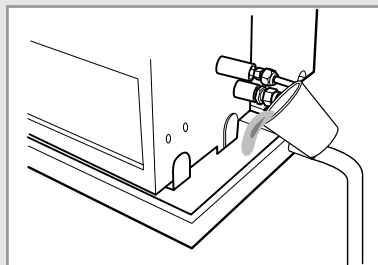
If it is necessary to increase the height of the drain hose somewhat, the portion directly after 75cm. If it is raised higher than 75cm, there can be water leaks.



## ■ Testing the drainage

*Prepare a little water about 5 liter.*

- 1 Pour water into the base pan in the indoor unit as shown in figure.
- 2 Confirm that the water flows out through the drain hose.



## Connecting the connection cord

*The indoor unit is powered from the outdoor unit via the connection cord.*

- 1 Remove the screw on the electrical component box and remove the cover plate.
- 2 Route the connection cord through the side of the indoor unit and connect the cable to terminals; refer to the figure below.
- 3 Route the other end of the cable to the outdoor unit through the ceiling & the hole on the wall.
- 4 Reassemble the electrical component box cover, carefully tightening the screw.

### Between Indoor and Outdoor Connection Cord Specifications

Power Supply (Single Phase)			Earth Cable	Communication Cable	Home server
Power Supply	Max/Min(V)	Connection Wire			
220-240V~ /50Hz	±10%	2.0mm <sup>2</sup> (H07RN-F, 3G)	Ø 1.6mm ( 2 wires)	0.75~ 1.25mm <sup>2</sup> (H07RN-F, 2 wires)	0.75~ 1.25mm <sup>2</sup> ( 2 wires)

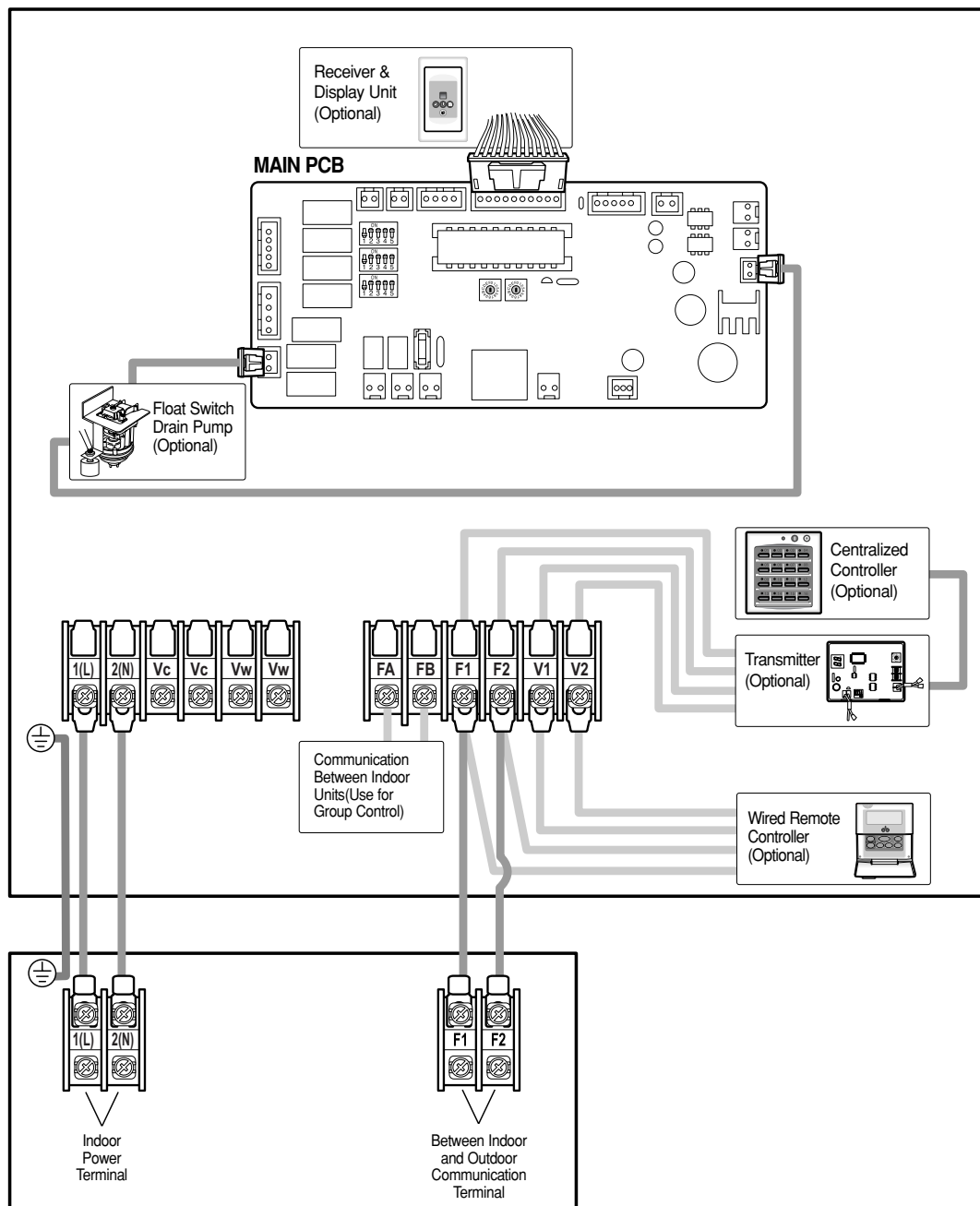
#### **CAUTION**

- ◆ **Keep the power cable and the connection cord in a steel pipe to protect them against liquids, outside impacts and so on.**

## Wiring and Communication Cable Connection

Connect the power cable, which is connected with the outdoor unit and supplied by another source, making sure that the power cable terminal should not be changed. Since the communication cable has the polarities, be careful to connect the terminal of F1, F2 and FA, FB rightly.

### Indoor Unit



### Outdoor Unit

## Group Control

*The group control can control 16 rooms(64 indoor units/standard) with a wired controller. When a whole unit is operating, each unit operates in the same mode(such as mode settings and the fan speed, etc.).*

*To control each unit separately, you can control it with the centralized controller or PC controller(S-Net) too. However, the group control and the separate control can't be operated at the same time.*

## Group Control Installation

- 1 Connect the power cable (F1, F2 and FA, FB) between indoor units.

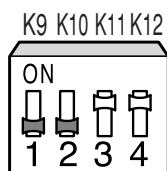
- 2 Set the optional switch(SW05).

### Note

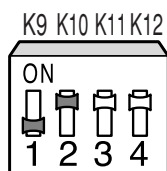
- ◆ Set the set you want to control as Master. (Set only a set of 16 rooms)
- ◆ Set the optional switch(K9) of the indoor unit to do a group control as OFF.
- ◆ Set the indoor unit as Master and then set its optional switch(K10) as OFF.

Indoor unit Switch No.	Master Indoor unit	Slave Indoor Unit	Function
K9	OFF	OFF	Set during the group control
K10	OFF	ON	Set Master indoor unit during the group control

Master Indoor Unit



Slave Indoor Unit

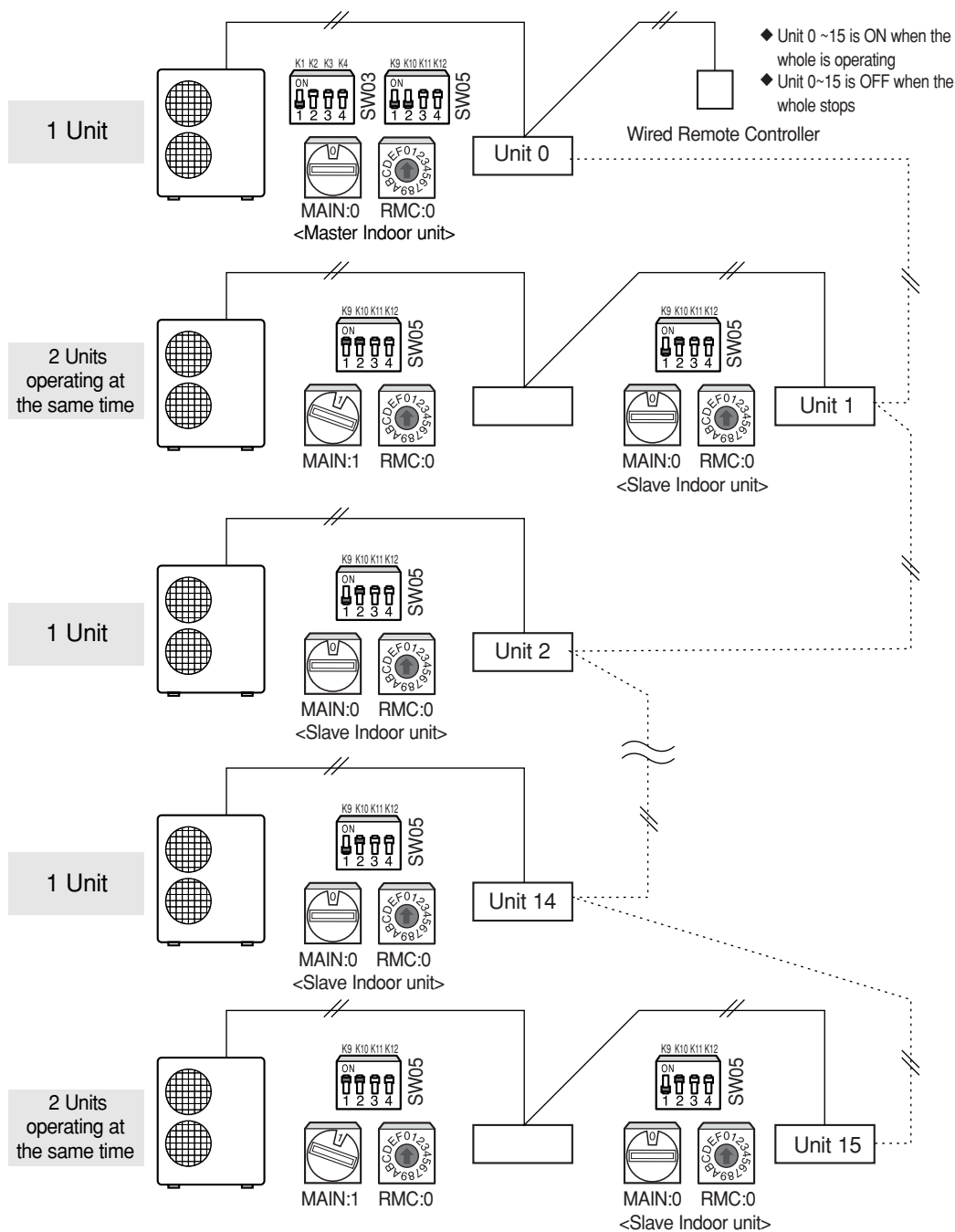




## The example of the group control installation

\* Master Indoor unit : Indoor unit with ADDRESS 0

..... The communication cable between indoor units



- \* Set the switch K1(SW03) of the indoor unit connected with a wired remote controller as OFF.  
Set the switch K9(SW05) of the indoor unit connected with the communication cable as OFF.

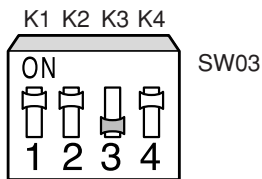
## Increasing fan speed

*If external static pressure is too great (due to long extension of ducts, for example), the air flow volume may drop too low at each air outlet. This problem can be solved by increasing the fan speed using the following procedure.*

- 1 Remove the screw on the electrical component box and remove the cover plate.
- 2 Adjust the DIP switch (SW03) on the main PCB to the "OFF" position.

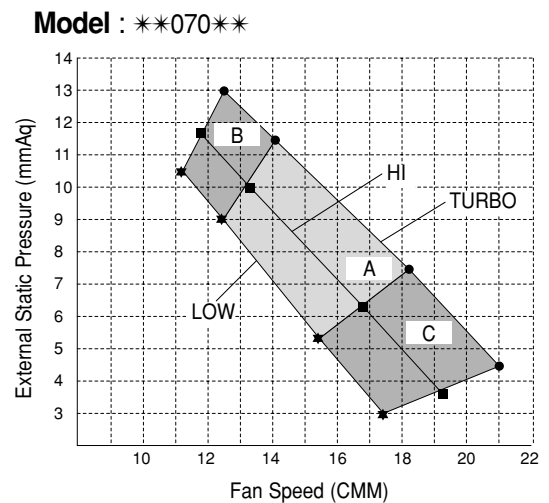
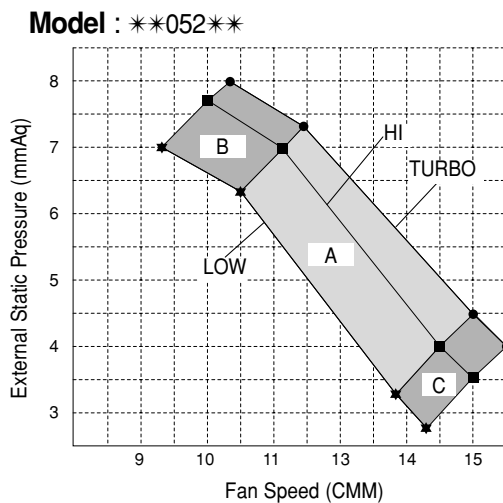
Switch No.	Switch Position	Function
K3	ON	Normal speed
	OFF	High speed

- 3 Re-install the cover plate and join the removed screw.



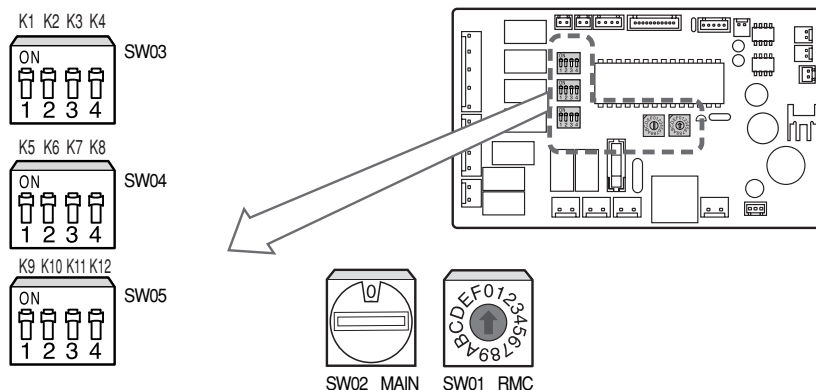
## Graph of fan speed and limitation of external static pressure

- 1 The value was measured at the wet fan speed.
- 2 Reading the graph
  - ◆ Hatching part A : Range of normal use
  - ◆ Hatching part B : Reliable, required cares not to loose a static pressure
  - ◆ Hatching part C : Reliable, required cares not to make noise
  - ◆ Out of hatching : Forbidden use

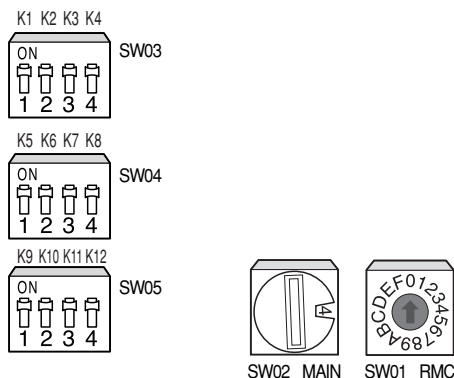


# Assigning address to indoor unit

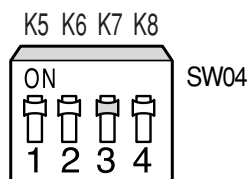
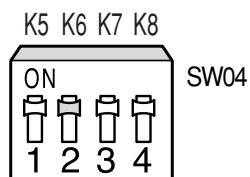
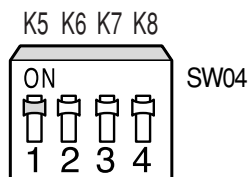
- 1 Before installing the indoor unit, assign an address to the indoor unit according to the air conditioning system plan.
- 2 The address of the indoor unit is assigned by adjusting MAIN(SW02) and RMC(SW01) rotary switches.



- 3 The MAIN address is for communication between the indoor unit and the outdoor unit. Therefore, you must set it to operate the air conditioner properly.
- 4 It is required to set the RMC address if you install the wired remote controller and/or the centralized controller.
- 5 If you install optional accessories such as the wired remote controller, centralized controller, etc. see an appropriate installation manual.
- 6 If an optional accessory is not installed, you do not have to set the RMC address. However, adjust K1 and K2 switches of the SW03 DIP switch to "ON" position in this case.
- 7 Set the MAIN address by adjusting the rotary switch(SW02) from 0 to F. Each indoor unit connected to the same outdoor unit must have different address.
  - i. e. If an indoor unit does not have an optional accessory and its MAIN address is "4"



## Additional functions



### Compensation for lost temperature in heating operation

- Reduces the difference between an actual room temperature and a sensed temperature by the air conditioner when heating.

Switch No.	Switch ON	Switch OFF
K5	2°C compensation	5°C compensation

### Adjusting filter cleaning cycle

- You can adjust the cycle for filter sign indicator.

Switch No.	Switch ON	Switch OFF
K6	1000 hours	2000 hours

### Hot water heater

- You must adjust the K7 when you install the hot water heater.

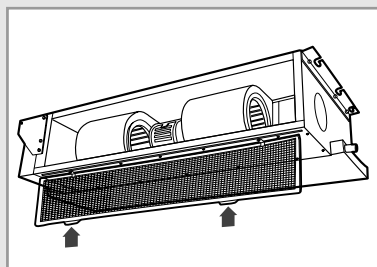
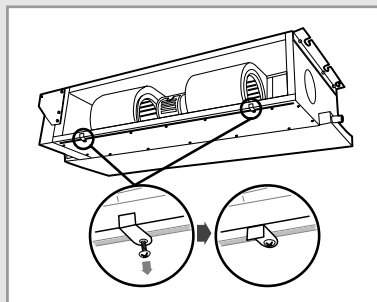
Switch No.	Switch ON	Switch OFF
K7	No use of hot water heater	Use of hot water heater

## Air filter installation (Optional)

- 1 Remove two screws securing on the levers under the bottom of the indoor unit.
- 2 Reassemble the levers making the other side face the indoor unit as shown in figure.
- 3 Turn the levers not to prevent inserting the air filter.
- 4 Insert the air filter into the indoor unit.
- 5 Turn the levers to the original position to fix the air filter securely.


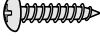


### CAUTION

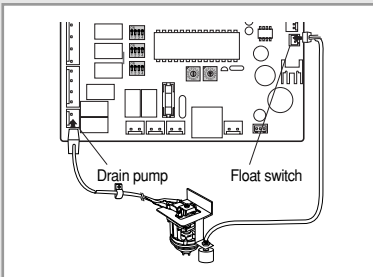
- ◆ *The optional kits must be installed by an installation specialist.*
- ◆ *Before installing the optional kits, ensure that you have turned off the main power.*
- ◆ *The optional air filter has to be cleaned only by an authorized person or service agent.*



## Drain pump installation (Optional)

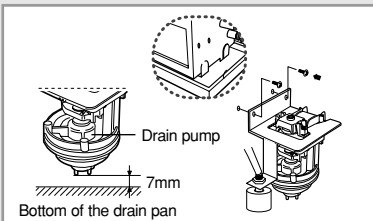
### Accessories

Drain pump & Float switch	M4x12 Tapped screw	Cable-tie	Cable clamp
1	4	2	2
			



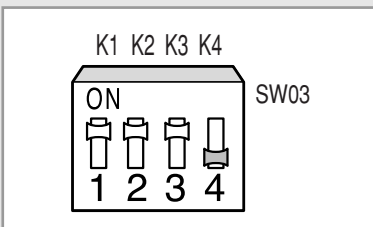
- 1 Connect the cable to the electrical component box as shown at the figure.

**Note** ♦ Connect the drain pump cable to yellow terminal(CN74) and the float switch to black terminal(CN51).



- 2 Screw the drain pump to the side of the indoor unit with two screws.

**Note** ♦ When installing the drain pump, leave a 7mm space between the bottom of the drain pan and the drain pump.



- 3 Adjust K4 DIP switch(SW03) to the "OFF" position.

Switch No.	Switch Position	Using Drain Pump
K4	ON	X
	OFF	O

**Note** ♦ Wrap the drain tube outlet on the right and left side of the indoor unit with an insulating materials.















# Troubleshooting

## Detection of errors

- ◆ If an error occurs during the operation, an LED flickers and the operation is stopped except the LED.
- ◆ If you re-operate the air conditioner, it operates normally at first, then detect an error again.

## LED Display on the receiver & display unit

### LED Display























Abnormal conditions	Indicators					Operating
	Concealed Type					
						
	Blue	Red				
	Standard Type					
						
Power reset		X	X	X	X	
Error of temperature sensor in indoor unit (OPEN/SHORT)	X	X		X	X	Displayed on appropriate indoor unit which is operating
Error of heat exchanger sensor in indoor unit(OPEN/SHORT)		X		X	X	Displayed on appropriate indoor unit which is operating
Error of outdoor temperature sensor Error of COND sensor Error of DISCHARGE sensor (OPEN/SHORT)		X	X		X	Displayed on appropriate indoor unit which is operating Displayed on outdoor unit
1. No communication for 2 minutes between indoor unit and outdoor unit (communication error for more than 2 minutes) 2. Indoor unit receiving the communication error from outdoor unit 3. Outdoor unit tracking 3 minute error 4. When sending the communication error from outdoor unit the mismatching of the communication numbers and installed numbers after completion of tracking. (communication error for more than 2 minutes)	X	X			X	1. Error of indoor unit: Displayed on the indoor unit regardless of operation  2. Error of outdoor unit: Displayed on the indoor unit which is operating

● On ● Flickering X Off

- ◆ If you turn off the air conditioner when the LED is flickering, the LED is also turned off.
- ◆ If you re-operate the air conditioner, it operates normally at first, then detect an error again.

# Troubleshooting

## LED Display


<u>Abnormal conditions</u>	<u>Indicators</u>					Operating
	Concealed Type					
	Blue	Red				
	Standard Type					
						
1. Communication error between indoors (Communication error for more than 2 minutes)		X	X	X		Error of indoor unit: Displayed on the indoor unit regardless of operation
2. Slave of indoor unit tracking error						
1. 2nd detection of high temperature COND						Displayed on appropriate indoor unit which is operating Displayed on outdoor unit
2. 2nd detection of high temperature DISCHARGE	X	X				
3. Error of reverse phase						
Error of float switch	X	X	X			
Error of setting option switches for optional accessories	X	X		X		
EEPROM error		X			X	
EEPROM option error						

● On ● Flickering X Off

- ◆ If you turn off the air conditioner when the LED is flickering, the LED is also turned off.
- ◆ If you re-operate the air conditioner, it operates normally at first, then detect an error again.



## Wired remote controller

- ◆ If an error occurs,  is displayed on the wired remote controller.  
If you would like to see an error code, press the Test button.

Display	Explanation	Remark
$E_r \leftrightarrow EA$	Error of communication between the outdoor unit and the wired remote controller	Communication errors
$E_r \leftrightarrow Eb$	Error of communication between the indoor unit and the wired remote controller	
$E_r \leftrightarrow \alpha x$	Error of float switch	Displays related to indoor unit (x : 0~F)
$E_r \leftrightarrow 9x$	OPEN/SHORT error of room sensor in indoor unit	
$E_r \leftrightarrow rx$	OPEN/SHORT error of eva in sensor in indoor unit	
$E_r \leftrightarrow tx$	EEPROM error	
$E_r \leftrightarrow Ux$	EEPROM option error	
$E_r \leftrightarrow ux$	Error of fan starting	
$E_r \leftrightarrow Eo$	Error of outdoor unit	For the details, refer to the installation manual of the outdoor unit.

The order of priority : EA → Eb →  $\alpha x$  → qx → rx → tx → Ux → vx → Eo

- In case that the same error displays from multi-indoor units, the one having the faster address has the priority.

option

option

option

Chapter

2







## ***OPTIONAL ACCESSORIES***

■ Parts list .....	27
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





## Parts list

### Receiver & Display Unit Accessories







#### Concealed Type

Receiver & display unit	STS 2S-2x10 tapped screw	2S-4x12 tapped screw	Owner's instructions	Installation manual	Wire kit (length 10m)
1	4	2	1	1	1
					

#### Standard Type




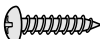



Receiver & display unit	M4x16 tapped screw	Cable-tie	Cable clamp	Owner's instructions	Installation manual	Wire kit (length 10m)
1	7	2	5	1	1	1
						

### Wireless Remote Controller Accessories




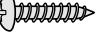


Wireless remote controller	Battery	Remote control holder	STS 2S-2x10 tapped screw	Owner's instructions	Installation manual
1	2	1	2	1	1
					

## Parts list




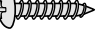


### Wired Remote Controller Accessories

Wired remote controller	Cable-tie	Cable clamp	M4x16 tapped screw	Indoor unit power drawing cable	Owner's instructions	Installation manual
1	2	6	7	1	1	1
						





### Centralized Controller Accessories

Centralized controller	Cable-tie	Cable clamp	M4x16 tapped screw	Owner's instructions	Installation manual
1	2	5	7	1	1
					

### Function Controller Accessories

Function controller	Cable-tie	Cable clamp	M4x16 tapped screw	Owner's instructions	Installation manual
1	2	6	7	1	1
					

### Transmitter Accessories

Transmitter	Transmitter power cable	Transmitter communication cable	Installation manual
1	1	1	1
			

**Note** ♦ If you would like to install the centralized controller, you must install the transmitter in the outdoor unit.

[illegible]

**THIS AIR CONDITIONER IS MANUFACTURED BY:  
ESTE AIRE ACONDICIONADO HA SIDO FABRICADO POR:  
CE CLIMATISEUR EST FABRIQUE PAR:  
QUESTO CONDIZIONATORE D'ARIA È PRODOTTO DA:  
ESTE APARELHO DE AR CONDICIONADO É FABRICADO POR:  
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ΑΥΤΗ Η ΣΥΣΚΕΥΗ ΚΑΤΑΣΚΕΥΑΣΤΗΚΕ ΑΠΟ:  
ЭТОТ КОНДИЦИОНЕР ИЗГОТОВЛЕН ФИРМОЙ:**



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